

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M99239	Client:	Alaskan Copper Works
Date Received:	07/13/06	Project:	PO# M99239, F&BI 607083
Date Extracted:	07/18/06	Lab ID:	607083-01 10x
Date Analyzed:	07/18/06	Data File:	607083-01 10x.032
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	btb

Internal Standard:	% Recovery:	Lower	Upper
Germanium	87	Limit:	Limit:
		60	125

Analyte:	Concentration ug/L (ppb)
Chromium	1,270
Nickel	2,070
Copper	1,810
Zinc	86.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Alaskan Copper Works
Date Received:	Not Applicable	Project:	PO# M99239, F&BI 607083
Date Extracted:	07/18/06	Lab ID:	I6-315 mb
Date Analyzed:	07/18/06	Data File:	I6-315 mb.019
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	btb

Internal Standard:	% Recovery:	Lower	Upper
Germanium	90	Limit:	Limit:
		60	125

Analyte:	Concentration ug/L (ppb)
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Chromium	<1
Nickel	<1
Copper	<1
Zinc	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/21/06

Date Received: 07/13/06

Project: Metro Self Monitor, PO# M99239, F&BI 607083

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR METALS BY EPA METHOD 200.8**

Laboratory Code: 607074-09 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	ug/L (ppb)	16.3	15.5	5	0-20
Nickel	ug/L (ppb)	3.73	3.41	9	0-20
Copper	ug/L (ppb)	<1	<1	nm	0-20
Zinc	ug/L (ppb)	1.79	2.12	17	0-20

Laboratory Code: 607074-09 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Chromium	ug/L (ppb)	20	16.3	110 b	50-150
Nickel	ug/L (ppb)	20	3.73	101	50-150
Copper	ug/L (ppb)	20	<1	100	50-150
Zinc	ug/L (ppb)	50	1.79	102	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	ug/L (ppb)	20	100	70-130
Nickel	ug/L (ppb)	20	100	70-130
Copper	ug/L (ppb)	20	100	70-130
Zinc	ug/L (ppb)	50	100	70-130

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

607083

SAMPLE CHAIN OF CUSTODY

ME 07-13-06

AIC

Send Report To

G. Thompson

Company

Alaska Copper works

Address

678 S Handland St

City, State, ZIP

Seattle WA 98134

Phone #

206-382-8374

Fax #

206-382-1305

SAMPLERS (signature)

PROJECT NAME/NO.

metro self monitor

PO #

M 99239

REMARKS

Page # of

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS					
M 99239	01	7/13/06	12:30	H2O	1											

Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE

Relinquished by:

Received by:

Relinquished by:

Received by:

PRINT NAME

G. Thompson

Nhan Phan

COMPANY

ACW

FeBJ

DATE

7/13/06

7/13/06

TIME

1:48 PM

1:48

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

July 21, 2006

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on July 13, 2006 from the Metro Self Monitor, PO# M99239, F&BI 607083 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU0721R

FRIEDMAN & BRUYA, INC.

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July 21, 2006

DUPLICATE COPY

INVOICE # 06ACU0721-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M99239, F&BI 607083 - Results of testing
requested by Gerry Thompson for material submitted on July 13, 2006.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc
by Method 200.8 @ \$80 per sample

\$ 80.00

Amount Due

\$ 80.00

FEDERAL TAX ID #(b) (6)